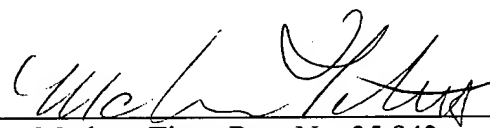


Remarks

In connection with the above-identified application, and in compliance with requirements for patent applications containing nucleotide sequence and/or amino acid sequence disclosures, we submit attached hereto a (1) a computer readable form of the sequence listing, and (2) a paper copy of same. In accordance with 37 CFR 1.821(f), it is submitted that the contents of the paper copy and the computer readable copy of the sequence listing are the same. Neither the paper copy nor the computer readable copy includes new matter.

By: 
Marlana Titus, Reg. No. 35,843

Nash & Titus, LLC
3415 Brookeville Road
Suite 1000
Brookeville, Maryland 20833
(301) 924-9600

MARKED-UP VERSION OF ABOVE AMENDMENTS TO SPECIFICATION

Page 8, last full paragraph:

Figures 5A and 5B represent two automated fluorescent DNA sequencing tracings (SEQ ID NOS 20 and 21, respectively, in order of appearance) of a GC-rich segment, comparing the performance of AmpliTaq™ in the ABI Prism™ BigDye™ Terminator cycle sequencing kit (5A) with that of the Bst-II cycle sequencing system (5B).

Page 26, in lines 16-19, in Example 2, mid-page:

Bst-II DNA polymerase was used for the study.

Template: pBluescript(+)

Forward Primer (SEQ ID NO:5): 5' GTAAAACGACGGCCAGT 3'

Reverse Primer (SEQ ID NO:6): 5' AACAGCTATGACCATG 3'

Page 28, in lines 1-14:

Four different sets of templates and primers were selected representing varying lengths of the DNA segments to be amplified:

Template A. pBluescript(+) 10 ng/ul

Forward Primer (SEQ ID NO: 5): 5' GTAAAACGACGGCCAGT 3'

Reverse Primer (SEQ ID NO: 6): 5' AACAGCTATGACCATG 3'

Template B. A Rice genome BAC DNA 10 ng/ ul

Forward Primer (SEQ ID NO: 7): 5' CTTAATTTAAGGTTCCGTG 3'

Reverse Primer (SEQ ID NO: 8): 5' GCATTGGTAAGCAATGG 3'

Template C. A hybridization probe 50 ng/ul

Forward Primer (SEQ ID NO: 9): 5' ACAAAGCACTGAACCTG 3'

Reverse Primer (SEQ ID NO: 10): 5' TGGGACCTATCGTGTTG 3'

Template D. A subclone of BAC from rice genome 50 ng/ul

Forward Primer (SEQ ID NO: 11): 5' CGAATTCCTGCAGCC 3'

Reverse Primer (SEQ ID NO: 12): 5' GAACTAGTGGATCCCCC 3'

Page 30, lines 11-17:

The two pairs of primers used were:

A: 17mer forward primer (SEQ ID NO: 13): 5'TAG CTA TCT AAC TTA AT3',

17mer reverse primer (SEQ ID NO: 14): 5'TTG TTT CTC TGA TGC AT3',

B: 30mer forward primer (SEQ ID NO: 15): 5'TAG CTA TCT AAC TTA ATT
TAA GGT TCC GTG3',

30mer reverse primer (SEQ ID NO: 16): 5'TTG TTT CTC TGA TGC ATT GGT
AAG CAA TGG3'.

Page 32, lines 17-22:

Bst-II Cycle Sequencing Experiment

Bst-II was used as the DNA polymerase.

Template: bg08. This was a GC-rich segment of a subclone of rice genome BAC 129.

Primer (SEQ ID NO:17): 5'GAA TTG GAG CTC CAC CGC GG3'

Pre-mixed dye-ddNTPs: Optimized R6G-ddATP, ROX-ddCTP, TAMRA-ddUTP,
and Bodipy F1-14-ddGTP, purchased from NEN™ Life Sciences Products.

Page 35, lines 4-7:

Bst-II was the DNA polymerase used.

Template: A rice genome BAC DNA

Forward Primer (SEQ ID NO:7): 5' CTTAATTTAAGGTTCCGTG 3'

Reverse Primer (SEQ ID NO:8): 5' GCATTGGTAAGCAATGG 3'

Page 37, lines 4-9:

Bst-II was used as the DNA polymerase.

Template: H525d9, a BAC of rice genome,

Forward primer (SEQ ID NO:18): 5' TTT CAG GGT CCC TTA TAT CTC 3',

Reverse primer (SEQ ID NO:19): 5'TCG CTT CTC CTC ATA ATC GAT 3'.

Pre-mixed dye-ddNTPs: Optimized R6G-ddATP, ROX-ddCTP, TAMRA-ddUTP, and
Bodipy F1-14-ddGTP, purchased from NEN™ Life Sciences Products.